



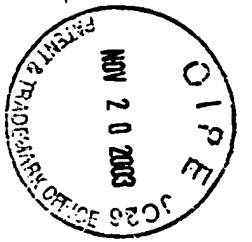
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FIG 5A

Human GDNF receptor Clones -- Alignment to generate consensus sequence

(SEQ ID NO: 45)	Gdnfr	-237	AAATCTGGCCT	CGGAACACGC	CATTCTCCGC	GCCGCTTCCA	ATAACCACTA	-188
(SEQ ID NO: 46)	Hsgr-21af		TCTGGCCT	CGGAACACGC	CATTCTCCGC	GCCGCTTCCA	ATAACCACTA	
(SEQ ID NO: 47)	Hsgr-21bf		AAATCTGGCCT	CGGAACACGC	CATTCTCCGC	GCCGCTTCCA	ATAACCACTA	
(SEQ ID NO: 48)	21acon		TCTGGCCT	CGGAACACGC	CATTCTCCGC	GCCGCTTCCA	ATAACCACTA	
(SEQ ID NO: 49)	21bcon		AAATCTGGCCT	CGGAACACGC	CATTCTCCGC	GCCGCTTCCA	ATAACCACTA	
(SEQ ID NO: 45)	Gdnfr	-187	ACATCCCTAA	CGAGCATCCG	AGCCGAGGGC	TCTGCTCGGA	AATCGTCCG	-138
(SEQ ID NO: 46)	Hsgr-21af		ACATCCCTAA	CGAGCATCCG	AGCCGAGGGC	TCTGCTCGGA	AATCGTCCG	
(SEQ ID NO: 47)	Hsgr-21bf		ACATCCCTAA	CGAGCATCCG	AGCCGAGGGC	TCTGCTCGGA	AATCGTCCG	
(SEQ ID NO: 48)	21acon		ACATCCCTAA	CGAGCATCCG	AGCCGAGGGC	TCTGCTCGGA	AATCGTCCG	
(SEQ ID NO: 49)	21bcon		ACATCCCTAA	CGAGCATCCG	AGCCGAGGGC	TCTGCTCGGA	AATCGTCCG	
(SEQ ID NO: 45)	Gdnfr	-137	GCCCAACTCG	GCCCTTCGAG	CTCTCGAAGA	TTACCGCATC	TAATTTTTTT	-88
(SEQ ID NO: 46)	Hsgr-21af		GCCCAACTCG	GCCCTTCGAG	CTCTCGAAGA	TTACCGCATC	TAATTTTTTT	
(SEQ ID NO: 47)	Hsgr-21bf		GCCCAACTCG	GCCCTTCGAG	CTCTCGAAGA	TTACCGCATC	TAATTTTTTT	
(SEQ ID NO: 48)	21acon		GCCCAACTCG	GCCCTTCGAG	CTCTCGAAGA	TTACCGCATC	TAATTTTTTT	
(SEQ ID NO: 49)	21bcon		GCCCAACTCG	GCCCTTCGAG	CTCTCGAAGA	TTACCGCATC	TAATTTTTTT	
(SEQ ID NO: 45)	Gdnfr	-87	TTCTTTTTTT	TCCTTTCCCTA	GCCGAGATTA	AGTGAGCCCG	GAAAGGGAAG	-38
(SEQ ID NO: 46)	Hsgr-21af		TTCTTTTTTT	TCCTTTCCCTA	GCCGAGATTA	AGTGAGCCCG	GAAAGGGAAG	
(SEQ ID NO: 47)	Hsgr-21bf		TTCTTTTTTT	TCCTTTCCCTA	GCCGAGATTA	AGTGAGCCCG	GAAAGGGAAG	
(SEQ ID NO: 48)	21acon		TTCTTTTTTT	TCCTTTCCCTA	GCCGAGATTA	AGTGAGCCCG	GAAAGGGAAG	
(SEQ ID NO: 49)	21bcon		TTCTTTTTTT	TCCTTTCCCTA	GCCGAGATTA	AGTGAGCCCG	GAAAGGGAAG	
(SEQ ID NO: 45)	Gdnfr	-37	GAGGGGGCGG	GGACACCAATT	GCCCTGAAAG	AATAAATAAG	TAAATAAACA	12
(SEQ ID NO: 46)	Hsgr-21af		GAGGGGGCGG	GGACACCAATT	GCCCTGAAAG	AATAAATAAG	TAAATAAACA	
(SEQ ID NO: 47)	Hsgr-21bf		GAGGGGGCGG	GGACACCAATT	GCCCTGAAAG	AATAAATAAG	TAAATAAACA	
(SEQ ID NO: 48)	21acon		GAGGGGGCGG	GGACACCAATT	GCCCTGAAAG	AATAAATAAG	TAAATAAACA	
(SEQ ID NO: 49)	21bcon		GAGGGGGCGG	GGACACCAATT	GCCCTGAAAG	AATAAATAAG	TAAATAAACA	

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FIG 5B

13
(SEQ ID NO:45) Gdnfr AACTGGCTCC TCGCCGCAGC TGGACGCGGT CGTTGAGTC CAGTTGGGT 62
(SEQ ID NO:46) Hsgr-21af AACTGGCTCC TCGCCGCAGC TGGACGCGGT CGTTGAGTC CAGTTGGGT
(SEQ ID NO:47) Hsgr-21bf AACTGGCTCC TCGCCGCAGC TGGACGCGGT CGTTGAGTC CAGTTGGGT
(SEQ ID NO:48) 21acon AACTGGCTCC TCGCCGCAGC TGGACGCGGT CGTTGAGTC CAGTTGGGT
(SEQ ID NO:49) 21bcon AACTGGCTCC TCGCCGCAGC TGGACGCGGT CGTTGAGTC CAGTTGGGT

63
(SEQ ID NO:45) Gdnfr CGGACCTGAA CCCCTAAAG CGGAACCGCC TCCCGCCCTC GCCATCCCG 112
(SEQ ID NO:46) Hsgr-21af CGGACCTGAA CCCCTAAAG CGGAACCGCC TCCCGCCCTC GCCATCCCG
(SEQ ID NO:47) Hsgr-21bf CGGACCTGAA CCCCTAAAG CGGAACCGCC TCCCGCCCTC GCCATCCCG
(SEQ ID NO:48) 21acon CGGACCTGAA CCCCTAAAG CGGAACCGCC TCCCGCCCTC GCCATCCCG
(SEQ ID NO:49) 21bcon CGGACCTGAA CCCCTAAAG CGGAACCGCC TCCCGCCCTC GCCATCCCG

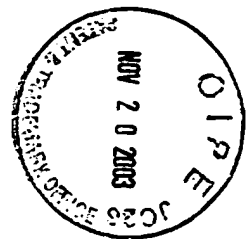
113
(SEQ ID NO:45) Gdnfr AGCTGAGTCG CCGCGCGCGG TGGCTGCTGC CAGACCCGGA GTTTCCTCTT 162
(SEQ ID NO:46) Hsgr-21af AGCTGAGTCG CCGCGCGCGG TGGCTGCTGC CAGACCCGGA GTTTCCTCTT
(SEQ ID NO:47) Hsgr-21bf AGCTGAGTCG CCGCGCGCGG TGGCTGCTGC CAGACCCGGA GTTTCCTCTT
(SEQ ID NO:48) 21acon AGCTGAGTCG CCGCGCGCGG TGGCTGCTGC CAGACCCGGA GTTTCCTCTT
(SEQ ID NO:49) 21bcon AGCTGAGTCG CCGCGCGCGG TGGCTGCTGC CAGACCCGGA GTTTCCTCTT

163
(SEQ ID NO:45) Gdnfr TCACCTGGATG GAGCTGAAGT TTGGGCGGGC AGAGCAGCAC AGCTGTCCGG 212
(SEQ ID NO:46) Hsgr-21af TCACCTGGATG GAGCTGAAGT TTGGGCGGGC AGAGCAGCAC AGCTGTCCGG
(SEQ ID NO:47) Hsgr-21bf TCACCTGGATG GAGCTGAAGT TTGGGCGGGC AGAGCAGCAC AGCTGTCCGG
(SEQ ID NO:48) 21acon TCACCTGGATG GAGCTGAAGT TTGGGCGGGC AGAGCAGCAC AGCTGTCCGG
(SEQ ID NO:49) 21bcon TCACCTGGATG GAGCTGAAGT TTGGGCGGGC AGAGCAGCAC AGCTGTCCGG

213
(SEQ ID NO:45) Gdnfr GGATCGCTGC ACGCTGAGCT CCCTCGGCAA GACCCAGCGG CGGCTCGGGA 262
(SEQ ID NO:46) Hsgr-21af GGATCGCTGC ACGCTGAGCT CCCTCGGCAA GACCCAGCGG CGGCTCGGGA
(SEQ ID NO:47) Hsgr-21bf GGATCGCTGC ACGCTGAGCT CCCTCGGCAA GACCCAGCGG CGGCTCGGGA
(SEQ ID NO:48) 21acon GGATCGCTGC ACGCTGAGCT CCCTCGGCAA GACCCAGCGG CGGCTCGGGA
(SEQ ID NO:49) 21bcon GGATCGCTGC ACGCTGAGCT CCCTCGGCAA GACCCAGCGG CGGCTCGGGA

263
(SEQ ID NO:45) Gdnfr TTTTTCCTGGG GGGGCGGGGA CCAGCCCCGC GCCGGCACCA TGTTCCTGGC 312
(SEQ ID NO:46) Hsgr-21af TTTTTCCTGGG GGGGCGGGGA CCAGCCCCGC GCCGGCACCA TGTTCCTGGC
(SEQ ID NO:47) Hsgr-21bf TTTTTCCTGGG GGGGCGGGGA CCAGCCCCGC GCCGGCACCA TGTTCCTGGC
(SEQ ID NO:48) 21acon TTTTTCCTGGG GGGGCGGGGA CCAGCCCCGC GCCGGCACCA TGTTCCTGGC
(SEQ ID NO:49) 21bcon TTTTTCCTGGG GGGGCGGGGA CCAGCCCCGC GCCGGCACCA TGTTCCTGGC

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FIG 5C

(SEQ ID NO: 45)	Gdnfr	313	GACCCCTGTAC	TTGCGGCTGC	CGCTCTTGA	CTTGCTCCTG	TCGGCCGAAG	362
(SEQ ID NO: 48)	21acon		GNCCTGTAC	TTGCGGCTGC	CGCTCTTGA	CTTGCTCCTG	TCGGCCGAAG	
(SEQ ID NO: 49)	21bcon		GACCCCTGTAC	TTGCGGCTGC	CGCTCTTGA	CTTGCTCCTG	TCGGCCGAAG	
(SEQ ID NO: 45)	Gdnfr	363	TGAGCGGCGG	AGACCGCTTG	GATTGCGTGA	AAGCCAGTGA	TCAGTGCCTG	412
(SEQ ID NO: 48)	21acon		TGAGCGGCGG	AGACCGCTTG	GATTGCGTGA	AAGCCAGTGA	TCAGTGCCTG	
(SEQ ID NO: 49)	21bcon		TGAGCGGCGG	AGACCGCTTG	GATTGCGTGA	AAGCCAGTGA	TCAGTGCCTG	
(SEQ ID NO: 45)	Gdnfr	413	AAGGAGCAGA	GCTGCAGCAC	CAAGTACCGC	ACGCTAAGGC	AGTGCCTGCG	462
(SEQ ID NO: 48)	21acon		AAGGAGCAGA	GCTGCAGCAC	CAAGTACCGC	ACGCTAAGGC	AGTGCCTGCG	
(SEQ ID NO: 49)	21bcon		AAGGAGCAGA	GCTGCAGCAC	CAAGTACCGC	ACGCTAAGGC	AGTGCCTGCG	
(SEQ ID NO: 45)	Gdnfr	463	GGGCAAGGAG	ACCACTTCA	GCCTGGCATC	CGGCTGGAG	GCCAAGGATG	512
(SEQ ID NO: 48)	21acon		GGGCAAGGAG	ACCACTTCA	GCCTGGCATC	CGGCTGGAG	GCCAAGGATG	
(SEQ ID NO: 49)	21bcon		GGGCAAGGAG	ACCACTTCA	GCCTGGCATC	CGGCTGGAG	GCCAAGGATG	
(SEQ ID NO: 45)	Gdnfr	513	AGTGCCTGCAG	CGCCATGAG	GCCCTGAAGC	AGAAGTCGCT	CTACAACCTGC	562
(SEQ ID NO: 48)	21acon		AGTGCCTGCAG	CGCCATGAG	GCCCTGAAGC	AGAAGTCGCT	CTACAACCTGC	
(SEQ ID NO: 49)	21bcon		AGTGCCTGCAG	CGCCATGAG	GCCCTGAAGC	AGAAGTCGCT	CTACAACCTGC	
(SEQ ID NO: 45)	Gdnfr	563	CGCTGCAGC	GGGTATGAA	GAAAGAGAAG	AACTGCTTGC	GCATTACTG	612
(SEQ ID NO: 48)	21acon		CGCTGCAGC	GGGTATGAA	GAAAGAGAAG	AACTGCTTGC	GCATTACTG	
(SEQ ID NO: 49)	21bcon		CGCTGCAGC	GGGTATGAA	GAAAGAGAAG	AACTGCTTGC	GCATTACTG	
(SEQ ID NO: 45)	Gdnfr	613	GAGCATGTAC	CAGAGCTTGC	AGGGAATGA	TCTGCTGGAG	GATTCCCAT	662
(SEQ ID NO: 48)	21acon		GAGCATGTAC	CAGAGCTTGC	AGGGAATGA	TCTGCTGGAG	GATTCCCAT	
(SEQ ID NO: 49)	21bcon		GAGCATGTAC	CAGAGCTTGC	AGGGAATGA	TCTGCTGGAG	GATTCCCAT	
(SEQ ID NO: 45)	Gdnfr	663	ATGAACCAAGT	TAACAGCAGA	TTGTCAAGATA	TAATCCGGGT	GGTCCCATTC	712
(SEQ ID NO: 48)	21acon		ATGAACCAAGT	TAACAGCAGA	TTGTCAAGATA	TAATCCGGGT	GGTCCCATTC	
(SEQ ID NO: 49)	21bcon		ATGAACCAAGT	TAACAGCAGA	TTGTCAAGATA	TAATCCGGGT	GGTCCCATTC	

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FIG 5D

713
(SEQ ID NO: 45) ATATCAGATG TTTTTCAGCA AGTGGAGCAC ATTCCCAAG GGAACAACCTG 762
(SEQ ID NO: 48) ATATCAGATG TTTTTCAGCA AGTGGAGCAC ATTCCCAAG GGAACAACCTG
(SEQ ID NO: 49) ATATCAGATG TTTTTCAGCA AGTGGAGCAC ATTCCCAAG GGAACAACCTG

763
(SEQ ID NO: 45) CCTGGATGCA GCGAAGGCTT GCAACCTCGA CGACATTTCG AAGAAGTACA 812
(SEQ ID NO: 48) CCTGGATGCA GCGAAGGCTT GCAACCTCGA CGACATTTCG AAGAAGTACA
(SEQ ID NO: 49) CCTGGATGCA GCGAAGGCTT GCAACCTCGA CGACATTTCG AAGAAGTACA

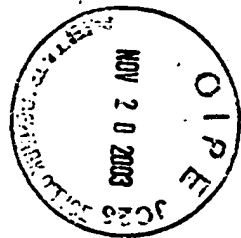
813
(SEQ ID NO: 45) GGTGCGCGTA CATCACCCCG TGCACCAACCA GCGTGTCCAA .GATGTCTGC 862
(SEQ ID NO: 50) GTCGCGCTA CATCACCCCG TGCACCAACCA GCGTGTCCAA TGATGTCTGC
(SEQ ID NO: 48) GGTGCGCGTA CATCACCCCG TGCACCAACCA GCGTGTCCAA CGATGTCTGC
(SEQ ID NO: 49) GGTGCGCGTA CATCACCCCG TGCACCAACCA GCGTGTCCAA CGATGTCTGC
(SEQ ID NO: 51) GTCGCGCTA CATCACCCCG TGCACCAACCA GCGTGTCCAA TGATGTCTGC

863
(SEQ ID NO: 45) AACCGCCGCA AGTGCCACAA GGCCTCCCG CAGTTCTTTG ACAAGGTCCC 912
(SEQ ID NO: 50) AACCGCCGCA AGTGCCACAA GGCCTCCCG CAGTTCTTTG ACAAGGTCCC
(SEQ ID NO: 48) AACCGCCGCA AGTGCCACAA GGCCTCCCG CAGTTCTTTG ACAAGGTCCC
(SEQ ID NO: 49) AACCGCCGCA AGTGCCACAA GGCCTCCCG CAGTTCTTTG ACAAGGTCCC
(SEQ ID NO: 51) AACCGCCGCA AGTGCCACAA GGCCTCCCG CAGTTCTTTG ACAAGGTCCC

913
(SEQ ID NO: 45) GGCCAAGCAC AGCTACGGAA TGCTCTTCTG CTCCCTGCCG GACATCGCCT 962
(SEQ ID NO: 50) GGCCAAGCAC AGCTACGGAA TGCTCTTCTG CTCCCTGCCG GACATCGCCT
(SEQ ID NO: 48) GGCCAAGCAC AGCTACGGAA TGCTCTTCTG CTCCCTGCCG GACATCGCCT
(SEQ ID NO: 49) GGCCAAGCAC AGCTACGGAA TGCTCTTCTG CTCCCTGCCG GACATCGCCT
(SEQ ID NO: 51) GGCCAAGCAC AGCTACGGAA TGCTCTTCTG CTCCCTGCCG GACATCGCCT

963
(SEQ ID NO: 45) GCACAGAGCG GAGCGACAG ACCATCGTGC CTGTGTGCTC CTATGAAGAG 1012
(SEQ ID NO: 50) GCACAGAGCG GAGCGACAG ACCATCGTGC CTGTGTGCTC CTATGAAGAG
(SEQ ID NO: 48) GCACAGAGCG GAGCGACAG ACCATCGTGC CTGTGTGCTC CTATGAAGAG
(SEQ ID NO: 49) GCACAGAGCG GAGCGACAG ACCATCGTGC CTGTGTGCTC CTATGAAGAG
(SEQ ID NO: 51) GCACAGAGCG GAGCGACAG ACCATCGTGC CTGTGTGCTC CTATGAAGAG

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FIG 5E

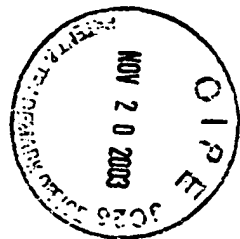
(SEQ ID NO:45) 1013
(SEQ ID NO:52) AGGGAAGAC CCAACTGTTT GAATTCAG GACTCCTGCA AGACGAATTA 1062
(SEQ ID NO:53) Hsgr-21ar GAATTCAG GACTCCTGCA AGACGAATTA
(SEQ ID NO:50) Hsgr-21br A
(SEQ ID NO:48) AGGGAAGAC CCAACTGTTT GAATTCAG GACTCCTGCA AGACGAATTA
(SEQ ID NO:49) AGGGAAGAC CCAACTGTTT GAATTCAG GACTCCTGCA AGACGAATTA
(SEQ ID NO:51) AGGGAAGAC CCAACTGTTT GAATTCAG GACTCCTGCA AGACGAATTA

(SEQ ID NO:45) 1063
(SEQ ID NO:52) CATCTGCAGA TCTCGCCTTG CGGATTTTTT TACCAACTGC CAGCCAGAGT 1112
(SEQ ID NO:53) Hsgr-21ar CATCTGCAGA TCTCGCCTTG CGGATTTTTT TACCAACTGC CAGCCAGAGT
(SEQ ID NO:50) Hsgr-21br CATCTGCAGA TCTCGCCTTG CGGATTTTTT TACCAACTGC CAGCCAGAGT
(SEQ ID NO:48) CATCTGCAGA TCTCGCCTTG CGGATTTTTT TACCAACTGC CAGCCAGAGT
(SEQ ID NO:49) CATCTGCAGA TCTCGCCTTG CGGATTTTTT TACCAACTGC CAGCCAGAGT
(SEQ ID NO:51) CATCTGCAGA TCTCGCCTTG CGGATTTTTT TACCAACTGC CAGCCAGAGT

(SEQ ID NO:45) 1113
(SEQ ID NO:52) CAAGGTCGT CAGCAGCTGT CTAAAGGAAA ACTACGCTGA CTGCTCTCTC 1162
(SEQ ID NO:53) Hsgr-21ar CAAGGTCGT CAGCAGCTGT CTAAAGGAAA ACTACGCTGA CTGCTCTCTC
(SEQ ID NO:50) Hsgr-21br CAAGGTCGT CAGCAGCTGT CTAAAGGAAA ACTACGCTGA CTGCTCTCTC
(SEQ ID NO:48) CAAGGTCGT CAGCAGCTGT CTAAAGGAAA ACTACGCTGA CTGCTCTCTC
(SEQ ID NO:49) CAAGGTCGT CAGCAGCTGT CTAAAGGAAA ACTACGCTGA CTGCTCTCTC
(SEQ ID NO:51) CAAGGTCGT CAGCAGCTGT CTAAAGGAAA ACTACGCTGA CTGCTCTCTC

(SEQ ID NO:45) 1163
(SEQ ID NO:52) Gdnfr GCCTACTCGG GGGTTAATGG CACAGTCATG ACCCCCAACT ACAVAGACTC 1212
(SEQ ID NO:53) Hsgr-21ar GCCTACTCGG GGGTTAATGG CACAGTCATG ACCCCCAACT ACAVAGACTC
(SEQ ID NO:50) Hsgr-21br GCCTACTCGG GGGTTAATGG CACAGTCATG ACCCCCAACT ACAVAGACTC
(SEQ ID NO:48) GCCTACTCGG GGGTTAATGG CACAGTCATG ACCCCCAACT ACAVAGACTC
(SEQ ID NO:49) GCCTACTCGG GGGTTAATGG CACAGTCATG ACCCCCAACT ACAVAGACTC
(SEQ ID NO:51) GCCTACTCGG GGGTTAATGG CACAGTCATG ACCCCCAACT ACAVAGACTC

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FIG 5F

1213 (SEQ ID NO:45) Gdnfr CAGTAGCCTC AGTGTGCCCC CATGTGTGA CTGCAGCAAC AGTGGGAACG 1262
(SEQ ID NO:54) Hsgr-2 CAGTAGCCTC AGTGTGCCCC CATGTGTGA CTGCAGCAAC AGTGGGAACG
(SEQ ID NO:52) Hsgr-21ar CAGTAGCCTC AGTGTGCCCC CATGTGTGA CTGCAGCAAC AGTGGGAACG
(SEQ ID NO:53) Hsgr-21br CAGTAGCCTC AGTGTGCCCC CATGTGTGA CTGCAGCAAC AGTGGGAACG
(SEQ ID NO:50) Hsgr-29a CAGTAGCCTC AGTGTGCCCC CATGTGTGA CTGCAGCAAC AGTGGGAACG
(SEQ ID NO:48) 21acon CAGTAGCCTC AGTGTGCCCC CATGTGTGA CTGCAGCAAC AGTGGGAACG
(SEQ ID NO:49) 21bcon CAGTAGCCTC AGTGTGCCCC CATGTGTGA CTGCAGCAAC AGTGGGAACG
(SEQ ID NO:51) 29brc CAGTAGCCTC AGTGTGCCCC CATGTGTGA CTGCAGCAAC AGTGGGAACG

1263 (SEQ ID NO:45) Gdnfr ACCTAGAGA GTGCTTGAAA TTTTGAATT TCCTCAAGGA CAATACATGT 1312
(SEQ ID NO:54) Hsgr-2 ACCTAGAGA GTGCTTGAAA TTTTGAATT TCCTCAAGGA CAATACATGT
(SEQ ID NO:55) Hsgr-9 A GTGCTTGAAA TTTTGAATT TCCTCAAGGA CAATACATGT
(SEQ ID NO:52) Hsgr-21ar ACCTAGAGA GTGCTTGAAA TTTTGAATT TCCTCAAGGA CAATACATGT
(SEQ ID NO:53) Hsgr-21br ACCTAGAGA GTGCTTGAAA TTTTGAATT TCCTCAAGGA CAATACATGT
(SEQ ID NO:50) Hsgr-29a ACCTAGAGA GTGCTTGAAA TTTTGAATT TCCTCAAGGA CAATACATGT
(SEQ ID NO:48) 21acon ACCTAGAGA GTGCTTGAAA TTTTGAATT TCCTCAAGGA CAATACATGT
(SEQ ID NO:49) 21bcon ACCTAGAGA GTGCTTGAAA TTTTGAATT TCCTCAAGGA CAATACATGT
(SEQ ID NO:51) 29brc ACCTAGAGA GTGCTTGAAA TTTTGAATT TCCTCAAGGA CAATACATGT

1313 (SEQ ID NO:45) Gdnfr CTTAAAAATG CAATTCAGC CTTTGGCAAT GGCCTCCGATG TGACCGTGTG 1362
(SEQ ID NO:54) Hsgr-2 CTTAAAAATG CAATTCAGC CTTTGGCAAT GGCCTCCGATG TGACCGTGTG
(SEQ ID NO:55) Hsgr-9 CTTAAAAATG CAATTCAGC CTTTGGCAAT GGCCTCCGATG TGACCGTGTG
(SEQ ID NO:52) Hsgr-21ar CTTAAAAATG CAATTCAGC CTTTGGCAAT GGCCTCCGATG TGACCGTGTG
(SEQ ID NO:53) Hsgr-21br CTTAAAAATG CAATTCAGC CTTTGGCAAT GGCCTCCGATG TGACCGTGTG
(SEQ ID NO:50) Hsgr-29a CTTAAAAATG CAATTCAGC CTTTGGCAAT GGCCTCCGATG TGACCGTGTG
(SEQ ID NO:48) 21acon CTTAAAAATG CAATTCAGC CTTTGGCAAT GGCCTCCGATG TGACCGTGTG
(SEQ ID NO:49) 21bcon CTTAAAAATG CAATTCAGC CTTTGGCAAT GGCCTCCGATG TGACCGTGTG
(SEQ ID NO:51) 29brc CTTAAAAATG CAATTCAGC CTTTGGCAAT GGCCTCCGATG TGACCGTGTG

1363 (SEQ ID NO:45) Gdnfr GCAGCCAGCC TTCCCAGTAC AGACCAACAC TGCCACTACC ACCACTGCCC 1412
(SEQ ID NO:54) Hsgr-2 GCAGCCAGCC TTCCCAGTAC AGACCAACAC TGCCACTACC ACCACTGCCC
(SEQ ID NO:55) Hsgr-9 GCAGCCAGCC TTCCCAGTAC AGACCAACAC TGCCACTACC ACCACTGCCC
(SEQ ID NO:52) Hsgr-21ar GCAGCCAGCC TTCCCAGTAC AGACCAACAC TGCCACTACC ACCACTGCCC
(SEQ ID NO:53) Hsgr-21br GCAGCCAGCC TTCCCAGTAC AGACCAACAC TGCCACTACC ACCACTGCCC
(SEQ ID NO:50) Hsgr-29a GCAGCCAGCC TTCCCAGTAC AGACCAACAC TGCCACTACC ACCACTGCCC
(SEQ ID NO:48) 21acon GCAGCCAGCC TTCCCAGTAC AGACCAACAC TGCCACTACC ACCACTGCCC
(SEQ ID NO:49) 21bcon GCAGCCAGCC TTCCCAGTAC AGACCAACAC TGCCACTACC ACCACTGCCC
(SEQ ID NO:51) 29brc GCAGCCAGCC TTCCCAGTAC AGACCAACAC TGCCACTACC ACCACTGCCC

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FIG 5G

1413 (SEQ ID NO: 45) Gdnfr TCCTGGGTTAA GAACAAGCCC CTGGGGCCAG CAGGGTCTGA GAATGAATTT 1462
(SEQ ID NO: 54) Hsgr-2 TCCTGGGTTAA GAACAAGCCC CTGGGGCCAG CAGGGTCTGA GAATGAATTT
(SEQ ID NO: 55) Hsgr-9 TCCTGGGTTAA GAACAAGCCC CTGGGGCCAG CAGGGTCTGA GAATGAATTT
(SEQ ID NO: 52) Hsgr-21ar TCCTGGGTTAA GAACAAGCCC CTGGGGCCAG CAGGGTCTGA GAATGAATTT
(SEQ ID NO: 53) Hsgr-21br TCCTGGGTTAA GAACAAGCCC CTGGGGCCAG CAGGGTCTGA GAATGAATTT
(SEQ ID NO: 50) Hsgr-29a TCCTGGGTTAA GAACAAGCCC CTGGGGCCAG CAGGGTCTGA GAATGAATTT
(SEQ ID NO: 48) 21acon TCCTGGGTTAA GAACAAGCCC CTGGGGCCAG CAGGGTCTGA GAATGAATTT
(SEQ ID NO: 49) 21bcon TCCTGGGTTAA GAACAAGCCC CTGGGGCCAG CAGGGTCTGA GAATGAATTT
(SEQ ID NO: 51) 29brc TCCTGGGTTAA GAACAAGCCC CTGGGGCCAG CAGGGTCTGA GAATGAATTT

1463 (SEQ ID NO: 45) Gdnfr CCCACTCATTG TTTTGGCCACC GTGTGCAAT TTTACAGGCAC AGAAGCTGAA 1512
(SEQ ID NO: 54) Hsgr-2 CCCACTCATTG TTTTGGCCACC GTGTGCAAT TTTACAGGCAC AGAAGCTGAA
(SEQ ID NO: 55) Hsgr-9 CCCACTCATTG TTTTGGCCACC GTGTGCAAT TTTACAGGCAC AGAAGCTGAA
(SEQ ID NO: 52) Hsgr-21ar CCCACTCATTG TTTTGGCCACC GTGTGCAAT TTTACAGGCAC AGAAGCTGAA
(SEQ ID NO: 53) Hsgr-21br CCCACTCATTG TTTTGGCCACC GTGTGCAAT TTTACAGGCAC AGAAGCTGAA
(SEQ ID NO: 50) Hsgr-29a CCCACTCATTG TTTTGGCCACC GTGTGCAAT TTTACAGGCAC AGAAGCTGAA
(SEQ ID NO: 48) 21acon CCCACTCATTG TTTTGGCCACC GTGTGCAAT TTTACAGGCAC AGAAGCTGAA
(SEQ ID NO: 49) 21bcon CCCACTCATTG TTTTGGCCACC GTGTGCAAT TTTACAGGCAC AGAAGCTGAA
(SEQ ID NO: 51) 29brc CCCACTCATTG TTTTGGCCACC GTGTGCAAT TTTACAGGCAC AGAAGCTGAA

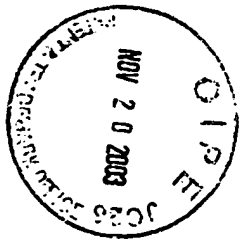
1513 (SEQ ID NO: 45) Gdnfr ATCCAAATGTG TCGGGGCAATA CACACCTCTG TATTTCCAAT GGTAAATTATG 1562
(SEQ ID NO: 54) Hsgr-2 ATCCAAATGTG TCGGGGCAATA CACACCTCTG TATTTCCAAT GGTAAATTATG
(SEQ ID NO: 55) Hsgr-9 ATCCAAATGTG TCGGGGCAATA CACACCTCTG TATTTCCAAT GGTAAATTATG
(SEQ ID NO: 52) Hsgr-21ar ATCCAAATGTG TCGGGGCAATA CACACCTCTG TATTTCCAAT GGTAAATTATG
(SEQ ID NO: 53) Hsgr-21br ATCCAAATGTG TCGGGGCAATA CACACCTCTG TATTTCCAAT GGTAAATTATG
(SEQ ID NO: 48) 21acon ATCCAAATGTG TCGGGGCAATA CACACCTCTG TATTTCCAAT GGTAAATTATG
(SEQ ID NO: 49) 21bcon ATCCAAATGTG TCGGGGCAATA CACACCTCTG TATTTCCAAT GGTAAATTATG
(SEQ ID NO: 51) 29brc ATCCAAATGTG TCGGGGCAATA CACACCTCTG TATTTCCAAT GGTAAATTATG

1563 (SEQ ID NO: 45) Gdnfr AAAAAAGAGG TCCTCGGTGCT TTCAGCCACA TTAACACAAA ATCAATGGCT 1612
(SEQ ID NO: 54) Hsgr-2 AAAAAAGAGG TCCTCGGTGCT TTCAGCCACA TTAACACAAA ATCAATGGCT
(SEQ ID NO: 55) Hsgr-9 AAAAAAGAGG TCCTCGGTGCT TTCAGCCACA TTAACACAAA ATCAATGGCT
(SEQ ID NO: 52) Hsgr-21ar AAAAAAGAGG TCCTCGGTGCT TTCAGCCACA TTAACACAAA ATCAATGGCT
(SEQ ID NO: 53) Hsgr-21br AAAAAAGAGG TCCTCGGTGCT TTCAGCCACA TTAACACAAA ATCAATGGCT
(SEQ ID NO: 48) 21acon AAAAAAGAGG TCCTCGGTGCT TTCAGCCACA TTAACACAAA ATCAATGGCT
(SEQ ID NO: 49) 21bcon AAAAAAGAGG TCCTCGGTGCT TTCAGCCACA TTAACACAAA ATCAATGGCT
(SEQ ID NO: 51) 29brc AAAAAAGAGG TCCTCGGTGCT TTCAGCCACA TTAACACAAA ATCAATGGCT

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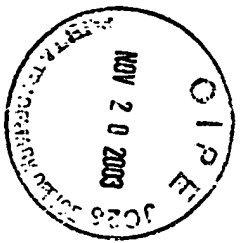
FIG 5H

(SEQ ID NO: 45)	Gdnfr	1613	GCTCCCTCCAA	GCTGTGTCT	GAGCCCACTG	CTGTCTCTGG	TGGTAAACCGC	1662
(SEQ ID NO: 54)	Hsgr-2		GCTCCTCCAA	GCTGTGTCT	GAGCCCACTG	CTGTCTCTGG	TGGTAAACCGC	
(SEQ ID NO: 55)	Hsgr-9		GCTCCTCCAA	GCTGTGTCT	GAGCCCACTG	CTGTCTCTGG	TGGTAAACCGC	
(SEQ ID NO: 52)	Hsgr-21ar		GCTCCTCCAA	GCTGTGTCT	GAGCCCACTG	CTGTCTCTGG	TGGTAAACCGC	
(SEQ ID NO: 53)	Hsgr-21br		GCTCCTCCAA	GCTGTGTCT	GAGCCCACTG	CTGTCTCTGG	TGGTAAACCGC	
(SEQ ID NO: 48)	21acon		GCTCCTCCAA	GCTGTGTCT	GAGCCCACTG	CTGTCTCTGG	TGGTAAACCGC	
(SEQ ID NO: 49)	21bcon		GCTCCTCCAA	GCTGTGTCT	GAGCCCACTG	CTGTCTCTGG	TGGTAAACCGC	
(SEQ ID NO: 51)	29brc		GCTCCTCCAA	GCTGTGTCT	GAGCCCACTG	CTGTCTCTGG	TGGTAAACCGC	
(SEQ ID NO: 45)	Gdnfr	1663	TCTGTCCACC	CTATTATCTT	TAACAGAAAC	ATCATAGCTG	CATTAAAAAA	1712
(SEQ ID NO: 54)	Hsgr-2		TCTGTCCACC	CTATTATCTT	TAACAGAAAC	ATCATAGCTG	CATTAAAAAA	
(SEQ ID NO: 55)	Hsgr-9		TCTGTCCACC	CTATTATCTT	TAACAGAAAC	ATCATAGCTG	CATTAAAAAA	
(SEQ ID NO: 52)	Hsgr-21ar		TCTGTCCACC	CTATTATCTT	TAACAGAAAC	ATCATAGCTG	CATTAAAAAA	
(SEQ ID NO: 53)	Hsgr-21br		TCTGTCCACC	CTATTATCTT	TAACAGAAAC	ATCATAGCTG	CATTAAAAAA	
(SEQ ID NO: 48)	21acon		TCTGTCCACC	CTATTATCTT	TAACAGAAAC	ATCATAGCTG	CATTAAAAAA	
(SEQ ID NO: 49)	21bcon		TCTGTCCACC	CTATTATCTT	TAACAGAAAC	ATCATAGCTG	CATTAAAAAA	
(SEQ ID NO: 51)	29brc		TCTGTCCACC	CTATTATCTT	TAACAGAAAC	ATCATAGCTG	CATTAAAAAA	
(SEQ ID NO: 45)	Gdnfr	1713	ATACAATATG	GACATGTAAA	AAGACAAAAA	CCAAGTTATC	TGTTTCCCTGT	1762
(SEQ ID NO: 54)	Hsgr-2		ATACAATATG	GACATGTAAA	AAGACAAAAA	CCAAGTTATC	TGTTTCCCTGT	
(SEQ ID NO: 55)	Hsgr-9		ATACAATATG	GACATGTAAA	AAGACAAAAA	CCAAGTTATC	TGTTTCCCTGT	
(SEQ ID NO: 51)	29brc		ATACAATATG	GACATGTAAA	AAGACAAAAA	CCAAGTTATC	TGTTTCCCTGT	
(SEQ ID NO: 45)	Gdnfr	1763	TCTCTTGTAT	AGCTGAATTT	CCAGTTTAGG	AGCTCAGTTG	AGAACAAGTT	1812
(SEQ ID NO: 54)	Hsgr-2		TCTCTTGTAT	AGCTGAATTT	CCAGTTTAGG	AGCTCAGTTG	AGAACAAGTT	
(SEQ ID NO: 55)	Hsgr-9		TCTCTTGTAT	AGCTGAATTT	CCAGTTTAGG	AGCTCAGTTG	AGAACAAGTT	
(SEQ ID NO: 51)	29brc		TCTCTTGTAT	AGCTGAATTT	CCAGTTTAGG	AGCTCAGTTG	AGAACAAGTT	
(SEQ ID NO: 45)	Gdnfr	1813	CCATTCAACT	GGAACATTTT	TTTTTTTTT	TTTTTAAGAAA	GCTTCTTGTG	1862
(SEQ ID NO: 54)	Hsgr-2		CCATTCAACT	GGAACATTTT	TTTTTTTTT	TTTTTAAGAAA	GCTTCTTGTG	
(SEQ ID NO: 55)	Hsgr-9		CCATTCAACT	GGAACATTTT	TTTTTTTTT	TTTTTAAGAAA	GCTTCTTGTG	
(SEQ ID NO: 51)	29brc		CCATTCAACT	GGAACATTTT	TTTTTTTTT	TTTTTAAGAAA	GCTTCTTGTG	
(SEQ ID NO: 45)	Gdnfr	1863	ATCCTTCGGG	GCTTCTGTGA	AAAACCTGAT	GCAGTGCTCC	ATCCAACATC	1912
(SEQ ID NO: 54)	Hsgr-2		ATCCTTCGGG	GCTTCTGTGA	AAAACCTGAT	GCAGTGCTCC	ATCCAACATC	
(SEQ ID NO: 55)	Hsgr-9		ATCCTTCGGG	GCTTCTGTGA	AAAACCTGAT	GCAGTGCTCC	ATCCAACATC	
(SEQ ID NO: 51)	29brc		ATCCTTCGGG	GCTTCTGTGA	AAAACCTGAT	GCAGTGCTCC	ATCCAACATC	

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FIG 51

(SEQ ID NO: 45)	Gdnfr	1913	AGAAGGCTTTT	GGGATATGCT	GTATTTTAAA	GGGACAGTTT	GTAACTTGGG	1962
(SEQ ID NO: 54)	Hsgr-2		AGAAGGCTTTT	GGGATATGCT	GTATTTTAAA	GGGACAGTTT	GTAACTTGGG	
(SEQ ID NO: 55)	Hsgr-9		AGAAGGCTTTT	GGGATATGCT	GTATTTTAAA	GGGACAGTTT	GTAACTTGGG	
(SEQ ID NO: 51)	29brc		AGAAGGCTTTT	GGGATATGCT	GTATTTTAAA	GGGACAGTTT	GTAACTTGGG	
(SEQ ID NO: 45)	Gdnfr	1963	CTGTAAAGCA	AACTGGGGCT	GTGTTTTGCA	TGATGATGAT	CATCATGATC	2012
(SEQ ID NO: 54)	Hsgr-2		CTGTAAAGCA	AACTGGGGCT	GTGTTTTGCA	TGATGATGAT	CATCATGATC	
(SEQ ID NO: 55)	Hsgr-9		CTGTAAAGCA	AACTGGGGCT	GTGTTTTGCA	TGATGATGAT	CATCATGATC	
(SEQ ID NO: 51)	29brc		CTGTAAAGCA	AACTGGGGCT	GTGTTTTGCA	TGATGATGAT	CATCATGATC	
(SEQ ID NO: 45)	Gdnfr	2013	ATGAT	.....	.....	.....	....GATTTT	2062
(SEQ ID NO: 54)	Hsgr-2		ATGAT	.....	.....	.....	....GATTTT	
(SEQ ID NO: 55)	Hsgr-9		ATGAT	.....	.....	.....	....GATTTT	
(SEQ ID NO: 51)	29brc		ATGAT	.....	.....	.....	....GATTTT	
(SEQ ID NO: 45)	Gdnfr	2063	AACAGTTTTT	CTTCTGGCCT	TTTCTAGCTA	GAGAAGAGT	TAATATTTCT	2112
(SEQ ID NO: 54)	Hsgr-2		AACAGTTTTT	CTTCTGGCCT	TTTCTAGCTA	GAGAAGAGT	TAATATTTCT	
(SEQ ID NO: 55)	Hsgr-9		AACAGTTTTT	CTTCTGGCCT	TTTCTAGCTA	GAGAAGAGT	TAATATTTCT	
(SEQ ID NO: 51)	29brc		AACAGTTTTT	CTTCTGGCCT	TTTCTAGCTA	GAGAAGAGT	TAATATTTCT	
(SEQ ID NO: 45)	Gdnfr	2113	AAGTAACTC	CCATATCTCC	TTTAAATGACA	TTGATTTTCTA	ATGATATATAA	2162
(SEQ ID NO: 54)	Hsgr-2		AAGTAACTC	CCATATCTCC	TTTAAATGACA	TTGATTTTCTA	ATGATATATAA	
(SEQ ID NO: 55)	Hsgr-9		AAGTAACTC	CCATATCTCC	TTTAAATGACA	TTGATTTTCTA	ATGATATATAA	
(SEQ ID NO: 51)	29brc		AAGTAACTC	CCATATCTCC	TTTAAATGACA	TTGATTTTCTA	ATGATATATAA	
(SEQ ID NO: 45)	Gdnfr	2163	TTTACAGCTTA	CATTGATGCC	AAGCTTTTTTT	GCCACAAGA	AGATTCTTAC	2212
(SEQ ID NO: 54)	Hsgr-2		TTTACAGCTTA	CATTGATGCC	AAGCTTTTTTT	GCCACAAGA	AGATTCTTAC	
(SEQ ID NO: 55)	Hsgr-9		TTTACAGCTTA	CATTGATGCC	AAGCTTTTTTT	GCCACAAGA	AGATTCTTAC	
(SEQ ID NO: 51)	29brc		TTTACAGCTTA	CATTGATGCC	AAGCTTTTTTT	GCCACAAGA	AGATTCTTAC	
(SEQ ID NO: 45)	Gdnfr	2213	CAAGAGTGGG	CTTTGTGAA	ACAGCTGGTA	CTGATGTTCA	CCTTTATATA	2262
(SEQ ID NO: 54)	Hsgr-2		CAAGAGTGGG	CTTTGTGAA	ACAGCTGGTA	CTGATGTTCA	CCTTTATATA	
(SEQ ID NO: 55)	Hsgr-9		CAAGAGTGGG	CTTTGTGAA	ACAGCTGGTA	CTGATGTTCA	CCTTTATATA	
(SEQ ID NO: 51)	29brc		CAAGAGTGGG	CTTTGTGAA	ACAGCTGGTA	CTGATGTTCA	CCTTTATATA	

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FIG 5J

(SEQ ID NO: 45)	Gdnfr	2263	TGTACTAGCA	TTTTCCACGC	TGATGTTTAT	GTACTGTAA	CAGTTCGCA	2312
(SEQ ID NO: 54)	Hsgr-2		TGTACTAGCA	TTTTCCACGC	TGATGTTTAT	GTACTGTAA	CAGTTCGCA	
(SEQ ID NO: 55)	Hsgr-9		TGTACTAGCA	TTTTCCACGC	TGATGTTTAT	GTACTGTAA	CAGTTCGCA	
(SEQ ID NO: 51)	29brc		TGTACTAGCA	TTTTCCACGC	TGATGTTTAT	GTACTGTAA	CAGTTCGCA	
(SEQ ID NO: 45)	Gdnfr	2313	CTCTGTGACA	AAAGAAAAAA	CACCTGTCAC	ATCCAATAT	AGTATCTGTC	2362
(SEQ ID NO: 54)	Hsgr-2		CTCTGTGACA	AAAGAAAA				
(SEQ ID NO: 55)	Hsgr-9		CTCTGTGACA	AAAGAAAA				
(SEQ ID NO: 51)	29brc		CTCTGTGACA	AAAGAAAAAA	CACCTGTCAC	ATCCAATAT	AGTATCTGTC	
(SEQ ID NO: 45)	Gdnfr	2363	TTTTTCGTCAA	AATAGAGAGT	GGGAATGAG	TGTGCCGATT	CAATACCTCA	2412
(SEQ ID NO: 51)	29brc		TTTTTCGTCAA	AATAGAGAGT	GGGAATGAG	TGTGCCGATT	CAATACCTCA	
(SEQ ID NO: 45)	Gdnfr	2413	ATCCCTGAAC	GACACTCTCC	TAATCCTAAG	CCTTACCCTGA	GTGAGAAGCC	2462
(SEQ ID NO: 51)	29brc		ATCCCTGAAC	GACACTCTCC	TAATCCTAAG	CCTTACCCTGA	GTGAGAAGCC	
(SEQ ID NO: 45)	Gdnfr	2463	CTTTTACCTAA	CAAAAGTCCA	ATATAGCTGA	AATGTCGCTC	TAATACTCTT	2512
(SEQ ID NO: 51)	29brc		CTTTTACCTAA	CAAAAGTCCA	ATATAGCTGA	AATGTCGCTC	TAATACTCTT	
(SEQ ID NO: 45)	Gdnfr	2513	TACACATATG	AGGTTATATG	TAGAAAAAAA	TTTTTACTACT	AAATGATTTTC	2562
(SEQ ID NO: 51)	29brc		TACACATATG	AGGTTATATG	TAGAAAAAAA	TTTTTACTACT	AAATGATTTTC	
(SEQ ID NO: 45)	Gdnfr	2563	AACTATTGGC	TTTCTATATT	TTGAAAGTAA	TGATATTGTC	TCATTTTTTTT	2612
(SEQ ID NO: 51)	29brc		AACTATTGGC	TTTCTATATT	TTGAAAGTAA	TGATATTGTC	TCATTTTTTTT	
(SEQ ID NO: 45)	Gdnfr	2613	ACTGATGGTT	TAATACAAAA	TACACAGAGC	TTGTTTCCCC	TCATAAGTAG	2662
(SEQ ID NO: 51)	29brc		ACTGATGGTT	TAATACAAAA	TACACAGAGC	TTGTTTCCCC	TCATAAGTAG	
(SEQ ID NO: 45)	Gdnfr	2663	TGTTTCGCTCT	GATATGAAC	TCACAATATC	AGCTCATCAA	AAGCAGACTC	2712
(SEQ ID NO: 51)	29brc		TGTTTCGCTCT	GATATGAAC	TCACAATATC	AGCTCATCAA	AAGCAGACTC	
(SEQ ID NO: 45)	Gdnfr	2713	TGAGAAGCCT	CGTGTGTAG	CAGAAAGTTC	TGCATCATGT	GACTGTGAC	2762
(SEQ ID NO: 51)	29brc		TGAGAAGCCT	CGTGTGTAG	CAGAAAGTTC	TGCATCATGT	GACTGTGAC	

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FIG 5K

(SEQ ID NO: 45)	Gdnfr	2763	AGGCAGGAGG	AAACAGAAC	GACAAGCATT	GTCTTTTGTG	ATTGCTCGAA	2812
(SEQ ID NO: 51)	29brc		AGGCAGGAGG	AAACAGAAC	GACAAGCATT	GTCTTTTGTG	ATTGCTCGAA	
(SEQ ID NO: 45)	Gdnfr	2813	GTGCAAGCGT	GCATACCTGT	GGAGGGAAGT	GGTGGCTGCT	TGTAATGTT	2862
(SEQ ID NO: 51)	29brc		GTGCAAGCGT	GCATACCTGT	GGAGGGAAGT	GGTGGCTGCT	TGTAATGTT	
(SEQ ID NO: 45)	Gdnfr	2863	CTGCAGCATC	TCTTGACACA	CTTGTGATGA	CACAATCCAG	TACCTTGCTT	2912
(SEQ ID NO: 51)	29brc		CTGCAGCATC	TCTTGACACA	CTTGTGATGA	CACAATCCAG	TACCTTGCTT	
(SEQ ID NO: 45)	Gdnfr	2913	TTCAGGTTAT	CTGACAAAGG	CAGCTTTGAT	TGGGACATGG	AGGCATGGGC	2962
(SEQ ID NO: 51)	29brc		TTCAGGTTAT	CTGACAAAGG	CAGCTTTGAT	TGGGACATGG	AGGCATGGGC	
(SEQ ID NO: 45)	Gdnfr	2963	AGGCCGGAA					
(SEQ ID NO: 51)	29brc		AGGCCGGAA					

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